

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

L Number	Hits	Search Text	DB	Time stamp
1	359	702/179.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 20:31
2	273	702/181.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 20:31
3	52	702/196.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 20:31
5	262	700/30.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 20:31
6	59	700/49.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 20:31
4	49	702/198.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 20:32
-	23722	least adj squares	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 18:02
-	9305	((least adj squares) and (matrix or matricies))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 18:02
-	3234	((least adj squares) and (matrix or matricies)) and (predict\$6 and respon\$4)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 18:03
-	113	((least adj squares) and (matrix or matricies)) and (predict\$6 and respon\$4)) and ((predict\$6 with (matrix or matricies)) and (respon\$4 with (matrix or matricies)))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 18:05
-	57	((least adj squares) and (matrix or matricies)) and (predict\$6 and respon\$4)) and ((predict\$6 with (matrix or matricies)) and (respon\$4 with (matrix or matricies))) and @ad<20000323	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 18:04
-	12	((least adj squares) and (matrix or matricies)) and (predict\$6 and respon\$4)) and ((predict\$6 with (matrix or matricies)) and (respon\$4 with (matrix or matricies))) and @ad<20000323) and ((predict\$6 with variable\$2) and (respon\$4 with variable\$2))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 18:05
-	3	((least adj squares) and (matrix or matricies)) and (predict\$6 and respon\$4)) and ((predict\$6 with (matrix or matricies)) and (respon\$4 with (matrix or matricies))) and @ad<20000323) and ((predict\$6 with variable\$2) and (respon\$4 with variable\$2)) and (scor\$5 with vector)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 18:06
-	2	((least adj squares) and (matrix or matricies)) and (predict\$6 and respon\$4)) and ((predict\$6 with (matrix or matricies)) and (respon\$4 with (matrix or matricies))) and @ad<20000323) and ((predict\$6 with variable\$2) and (respon\$4 with variable\$2)) and (scor\$5 with vector)) and (load\$4 with vector)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 18:06

-	1	(((((least adj squares) and (matrix or matrices)) and (predict\$6 and respon\$4)) and ((predict\$6 with (matrix or matrices)) and (respon\$4 with (matrix or matrices)))) and @ad<20000323) and ((predict\$6 with variable\$2) and (respon\$4 with variable\$2))) and (scor\$5 with vector)) and (load\$4 with vector)) and (regress\$5 same (matrix or matrices))) and (general\$7 same scor\$5)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 18:26
-	2	(((((least adj squares) and (matrix or matrices)) and (predict\$6 and respon\$4)) and ((predict\$6 with (matrix or matrices)) and (respon\$4 with (matrix or matrices)))) and @ad<20000323) and ((predict\$6 with variable\$2) and (respon\$4 with variable\$2))) and (scor\$5 with vector)) and (load\$4 with vector)) and (regress\$5 same (matrix or matrices))) and (general\$7 same scor\$5)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 18:10
-	0	(((((least adj squares) and (matrix or matrices)) and (predict\$6 and respon\$4)) and ((predict\$6 with (matrix or matrices)) and (respon\$4 with (matrix or matrices)))) and @ad<20000323) and ((predict\$6 with variable\$2) and (respon\$4 with variable\$2))) and (scor\$5 with vector)) and (load\$4 with vector)) and (regress\$5 same (matrix or matrices))) and (augment\$5 same (matrix or matrices)))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 18:10
-	1	(((((least adj squares) and (matrix or matrices)) and (predict\$6 and respon\$4)) and ((predict\$6 with (matrix or matrices)) and (respon\$4 with (matrix or matrices)))) and @ad<20000323) and ((predict\$6 with variable\$2) and (respon\$4 with variable\$2))) and (scor\$5 with vector)) and (load\$4 with vector)) and (regress\$5 same (matrix or matrices))) and (general\$7 same scor\$5)) and pls	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/06/18 20:30



US Patent & Trademark Office

[Subscribe](#) (Full Service) [Register](#) (Limited Service, Free) [Login](#)

Search: ☒ The ACM Digital Library ☒ The Guide



Nothing Found

Your search for **+"partial least squares" +predictor +response +"score vector" +"loading vector" +"regression matrix"** did not return any results.

You may want to try an [Advanced Search](#) for additional options.

Please review the [Quick Tips](#) below or for more information see the [Search Tips](#).

Quick Tips

- Enter your search terms in lower case with a space between the terms.

sales offices

You can also enter a full question or concept in plain language.

Where are the sales offices?

- Capitalize proper nouns to search for specific people, places, or products.

John Colter, Netscape Navigator

- Enclose a phrase in double quotes to search for that exact phrase.

"museum of natural history" "museum of modern art"

- Narrow your searches by using a **+** if a search term must appear on a page.

museum +art

- Exclude pages by using a **-** if a search term must not appear on a page.

museum -Paris

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

museum +"natural history" dinosaur -Chicago

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2004 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)

[IEEE HOME](#) | [SEARCH IEEE](#) | [SHOP](#) | [WEB ACCOUNT](#) | [CONTACT IEEE](#)[Membership](#) | [Publications/Services](#) | [Standards](#) | [Conferences](#) | [Careers/Jobs](#)Welcome
United States Patent and Trademark Office[Help](#) | [FAQ](#) | [Terms](#) | [IEEE Peer Review](#)[Quick Links](#)**Welcome to IEEE Xplore®**

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

[Print Format](#)Your search matched **0** of **1045422** documents.A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.**Refine This Search:**

You may refine your search by editing the current search expression or enter a new one in the text box.

☐ Check to search within this result set**Results Key:****JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard**Results:****No documents matched your query.**

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved

[IEEE HOME](#) | [SEARCH IEEE](#) | [SHOP](#) | [WEB ACCOUNT](#) | [CONTACT IEEE](#)[Membership](#) | [Publications/Services](#) | [Standards](#) | [Conferences](#) | [Careers/Jobs](#)Welcome
United States Patent and Trademark Office[Help](#) | [FAQ](#) | [Terms](#) | [IEEE Peer Review](#)[Quick Links](#)**Welcome to IEEE Xplore®**

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

[Print Format](#)Your search matched **0** of **1045422** documents.A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.**Refine This Search:**

You may refine your search by editing the current search expression or enter a new one in the text box.

☐ Check to search within this result set**Results Key:****JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard**Results:****No documents matched your query.**[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved



[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [more »](#)

"partial least squares" "predictor matrix" "re

[Advanced Search](#)
[Preferences](#)

"vector" (and any subsequent words) was ignored because we limit queries to 10 words.

Web Results 1 - 2 of 2 for "partial least squares" "predictor matrix" "response matrix" "score vector" "lo

Tip: Try removing quotes from your search to get more results.

[PDF] [Multivariate Characterization of Wood Related Materials](#)

File Format: PDF/Adobe Acrobat - View as HTML

... OSC Orthogonal Signal Correction PCA Principal Component Analysis PLS **Partial Least Squares** Projections to ... for X in PLS (KxA) P matrix of **loading** vectors for X ...

www.chem.umu.se/dep/ok/thesis/henrikantti/henrikantti.pdf - [Similar pages](#)

[PDF] [P MM](#)

File Format: PDF/Adobe Acrobat - View as HTML

... vector for Y, $[M \times 1]$ u **Score vector** for Y ... **Partial least squares** projections to latent structures (PLS) PLS is ... a descriptor matrix X and a **response matrix** Y is ...

www.chem.umu.se/dep/orgchem/forskning/thesis/johantrygg/ParsimoniousMultivariateModels.pdf - [Similar pages](#)

"partial least squares" "predictor"

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied?](#) [Help us improve](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2004 Google



[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [more »](#)

"partial least squares" "prediction matrix" "r

Search

[Advanced Search](#)
[Preferences](#)

"vector" (and any subsequent words) was ignored because we limit queries to 10 words.

Web

Tip: Try removing quotes from your search to get more results.

Your search - **"partial least squares" "prediction matrix" "response matrix" "score vector" "loading vector" "regression matrix"** - did not match any documents.

Suggestions:

- Make sure all words are spelled correctly.
- Try different keywords.
- Try more general keywords.
- Try fewer keywords.

Sponsored Links

The Matrix

Original Motion Picture **Score**

By Don Davis. \$14.99 (or buy used).
Amazon.com

eBay: **Matrix Matrix**

Great deals on hard to find items.
Free & easy registration! Aff.
eBay.com

[See your message here...](#)

Also, you can try [Google Answers](#) for expert help with your search.

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2004 Google



[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [more »](#)

"partial least squares" ("predictor matrix" O

Search

[Advanced Search](#)
[Preferences](#)

"vector" (and any subsequent words) was ignored because we limit queries to 10 words.

Web Results 1 - 6 of 6 for "partial least squares" ("predictor matrix" OR "prediction matrix") "response m

Tip: Try removing quotes from your search to get more results.

Partial Least Squares

... Here is the definition of **Partial Least Squares** (PLS ... Coefficient Calculation (from SYBYL manual): $X: (X_{ij})$ **predictor matrix** $Y: (Y_{ik})$ **response matrix** $i = 1 \dots$

mmlin5.pha.unc.edu/~jin/QSAR/PLS/pls.html - 8k - Supplemental Result - [Cached](#) - [Similar pages](#)

[PDF] Toxicological Evaluation of Complex Mixtures by Pattern ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... Furthermore, **partial least-squares** projections to latent structures ... create the final **predictor matrix** X , each ... 8). Consequently, the **response matrix** should be ...

ehp.niehs.nih.gov/members/2002/suppl-6/985-988eide/ehp110s6p985.pdf - [Similar pages](#)

Toxicological Evaluation of Complex Mixtures by Pattern ...

... **Partial least-squares** (PLS) projections to latent structures (11 ... To create the final **predictor matrix** X , each ... 8). Consequently, the **response matrix** should be ...

ehp.niehs.nih.gov/members/2002/suppl-6/985-988eide/eide-full.html - 54k - [Cached](#) - [Similar pages](#)

CO-CORRESPONDENCE ANALYSIS: A NEW ORDINATION METHOD TO RELATE TWO ...

... **Partial least squares** regression (PLS) works with ordination axes (called ... Y_2 is PLS of the **response matrix** Y with respect to the **predictor matrix** X with. ...

www.esajournals.org/.../?request=get-document&issn=0012-9658&volume=085&issue=03&page=0834 -

[Similar pages](#)

[PDF] Multivariate Characterization of Wood Related Materials

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... OSC Orthogonal Signal Correction PCA Principal Component Analysis PLS **Partial Least Squares** Projections to ... for Y in PLS ($M \times 1$) T matrix of **score** vectors for X ...

www.chem.umu.se/dep/ok/thesis/henrikantti/henrikantti.pdf - [Similar pages](#)

[PDF] P MM

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... of $(X \ T \ X)$ and the **score** vectors (T ... **Partial least squares** projections to latent structures (PLS) PLS is one of ... a descriptor matrix X and a **response matrix** Y is ...

www.chem.umu.se/dep/orgchem/forskning/thesis/johantrygg/ParsimoniousMultivariateModels.pdf -

[Similar pages](#)

"partial least squares" ("predictor

Search

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied?](#) [Help us improve](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2004 Google